



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,292	09/16/2003	Jih-Ching Chang	MR1035-1310	9832
4586	7590	10/05/2004	EXAMINER	
ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			BLACKMAN, ROCHELLE ANN J	
			ART UNIT	PAPER NUMBER
			2851	

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/662,292

Applicant(s)

CHANG ET AL.

Examiner

Rochelle Blackman

Art Unit

2851

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09/16/03 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "image receiving key", "control circuit", and "computer" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 2-9 and 15 are objected to because of the following informalities: the space between "is" and "selected", "a" and "manual", "before" and "step", "are" and "exchanged", "real" and "object", "receiving" and "apparatus", "key" and "is", and "receiving" and "key" in claims 2-9 and 15 should be omitted. In claim 5, line 2, "assings" should be - -assigns- -. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamada (U.S. Patent No. 5,282,064).

Regarding claims 1-8, Yamada discloses a projection method of a real object projector (see function of elements in FIGS. 2-12), in which an image receiving key (510) is used for operating the real object projector to project an image on a transparent film, the real object projector comprising a light source module (201, 105, 204), a control circuit (508) and an image receiving apparatus (203, 205-207, 208), and the light source module further comprises a transparent film clip (see 301-303, FIGS. 7, 8-1 – 8-3, and 11-1) having a mark (information on frame 301 – see col. 8, lines 3-7) , the method comprising steps of; (a) moving the image receiving apparatus to a suitable position

Art Unit: 2851

according to the mark (see function of 511); (b) focusing the image receiving apparatus according to the transparent film clip (see col. 7, line 57 to col. 8, line 22); (c) pressing the image receiving key (see function of 510); and (d) digitally magnifying the projection image of the transparent film with the control circuit depending on a type of the transparent film clip (see col. 3, lines 12-18 and col. 3, line 3 to col. 4, line 2); wherein the image receiving key is selected from an image receiving key on the real object projector and an image receiving key on a computer which is connected to the real object projector (see function of 510); wherein step (a) is selected from a manual operation and an automatic operation (see function of 510 and 511); wherein step (b) is selected from a manual focus and an automatic focus (also see col. 7, line 57 to col. 8, line 22); wherein the image receiving key is selected from an image receiving key which assigns sizes of the transparent film and an image receiving key which does not assign sizes of the transparent film, and if the image receiving key is selected from the later, steps (c) and (d) further identify kinds of the transparent film clip via the control circuit (also see col. 7, line 57 to col. 8, line 22); wherein step (c) is arranged before step (a), and the method is performed in a sequence of (c)(a)(b)(d) ; wherein step (b) is arranged after step (d), and the method is performed in a sequence of (a)(c)(d)(b); wherein step (b) and step (c) are exchanged, and the method is performed in a sequence of (a)(c)(b)(d) (see flow charts of FIGS. 9, 10, and 12).

Regarding claim 9, Yamada discloses a projection method of a real object projector (see function of elements in FIGS. 2-12) for projecting a transparent film image, the real object projector comprising a light source module (201, 105, 204), a

Art Unit: 2851

control circuit (508) and an image receiving apparatus (203, 205-207, 208), and the light source module further comprises a transparent film clip (see 301-303, FIGS. 7, 8-1 – 8-3, and 11-1) having a mark (information on frame 301 – see col. 8, lines 3-7), wherein the method comprises steps of: (a) moving the image receiving apparatus to a suitable position according to the mark (see function of 511); (b) automatically focusing the image receiving apparatus according to the transparent film clip (see col. 7, line 57 to col. 8, line 22); (c) automatically identifying a kind of transparent film clip with the control circuit (also see col. 7, line 57 to col. 8, line 22); and (d) digitally magnifying the projection image of the transparent film with the control circuit (see col. 3, lines 12-18 and col. 3, line 3 to col. 4, line 2).

Regarding claims 10-13, Yamada discloses a projection method of a real object projector (see function of elements in FIGS. 2-12), in which an image receiving key (510) is used for operating the real object projector to project a transparent film (302), the real object projector comprises a light source module (201, 105, 204), a control circuit (508) and an image receiving apparatus (203, 205-207, 208), and the light source module further comprises a transparent film clip (see 301-303, FIGS. 7, 8-1 – 8-3, and 11-1) having a mark (information on frame 301 – see col. 8, lines 3-7), wherein the method comprises steps of: (a) pressing the image receiving key (see function of 510); (b) moving the image receiving apparatus to a suitable position for maximizing a projection image (see function of 511); and (c) focusing the image receiving apparatus according to the transparent film clip (see col. 7, line 57 to col. 8, line 22); wherein the image receiving key is selected from an image receiving key on the real object projector

Art Unit: 2851

and an image receiving key on a computer which is connected to the real object projector (see function of 510); wherein step (c) is selected from a manual focus and an automatic focus (see function of 510 and 511); wherein the image receiving key is selected from an image receiving key which assigns sizes of the transparent film and an image receiving key which does not assign sizes of the transparent film (see col. 7, line 57 to col. 8, line 22), if the image receiving key is selected from the later, further adding three steps between steps (a) and (b), the three steps comprising: (p) automatically moving the image receiving apparatus to a suitable position according to the mark (see function of 511); (q) automatically focusing the image receiving apparatus (see col. 7, line 57 to col. 8, line 22); and (r) automatically identifying a kind of the transparent film clip with the control circuit (also see col. 7, line 57 to col. 8, line 22).

Regarding claims 14 and 15, Yamada discloses a projection method of a real object projector (see function of elements in FIGS. 2-12), in which an image receiving key (510) is used for operating the real object projector to project a transparent film (see 302), the real object projector comprising a light source module (201, 105, 204), a control circuit (508) and an image receiving apparatus (203, 205-207, 208), and the light source module further comprises a transparent film clip (see 301-303, FIGS. 7, 8-1 – 8-3, and 11-1) having a mark (information on frame 301 – see col. 8, lines 3-7), wherein the method comprises steps of: (a) pressing the image receiving key (see function of 510); (b) automatically moving the image receiving apparatus to a suitable position in accordance with the mark (see function of 511); (c) automatically focusing the image receiving apparatus corresponding to the transparent film clip (see col. 7, line 57 to col.

8, line 22); (d) automatically identifying kinds of the transparent film clip with the control circuit (also see col. 7, line 57 to col. 8, line 22), (e) automatically moving the image receiving apparatus to a suitable position for obtaining a sufficient magnifying power corresponding to kinds of the transparent film clip (see function of 511); and (f) automatically zooming and focusing the image receiving apparatus to magnify a projection image (also see function of 511); wherein the image receiving key is selected from an image receiving key on the real object projector and an image receiving key on a computer which is connected to the real object projector (see 510).

Conclusion

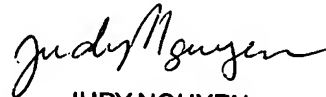
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rochelle Blackman whose telephone number is (571) 272-2113. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2851

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RB


JUDY NGUYEN
PRIMARY EXAMINER